SERVICE BULLETIN

Health Imaging Products

Eastman Kodak Company, Health Imaging, Rochester, NY 14650

SERVICE BULLETIN NO. 312 **JULY 2003**

3444 *Kodak X-Omat* MULTILOADER 7000
3058 *Kodak X-Omat* MULTILOADER 300
3511 *Kodak X-Omat* MULTILOADER 300 PLUS
3477 *Kodak* MINILOADER 2000
3479 *Kodak* MINILOADER 2000P
3053 *Kodak* MULTILOADER 700
3443 *Kodak* MULTILOADER 700 PLUS

New Type 1 Required MODIFICATION Kit 1F6304 available

Modification No. 6 for the *Kodak X-Omat* MULTILOADER 7000

Modification No. 6 is an upgrade to the pneumatic system to prevent air leakage in the WATER TRAP ASSEMBLIES. The air leakage may cause the error code "MS C0".

This is a Type 1 Required Modification, which must be done to all MULTILOADERS in the following serial number range:

Kodak X-Omat MULTILOADER 7000…….1001 – 1514

- Modification No. 6, **Part No. 1F6304,** is now available from Service Parts Management.
- Installation time is 1 hour.

Announcing a New Version of Service Software for MULTILOADERS

Service Software version 1.43 for the MULTILOADERS is now available from Service Parts Management. This is a *Windows* based software that can be used to service the *Kodak X-Omat* MULTILOADERS 300, 300 PLUS and 7000.

Improvements

Included in the Service Software Version 1.43, are improvements to:

- Overwriting old Operating and Service software when updating to new versions of software
- Run Time error handling
- Error code descriptions
- Step-by-Step Mode
- Clear Memories screen

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Version 1.43 Service Software is fully compatible with the following:

MULTILOADER	Minimum Operating Software Version for MULTILOADER
Kodak X-Omat MULTILOADER 300	4.00
Kodak X-Omat MULTILOADER 300 PLUS	5.21
Kodak X-Omat MULTILOADER 7000	1.20

Hardware Requirements

The following are the minimum recommended laptop computer requirements for version 1.43 Service Software.

- *IBM* fully compatible
- CD-ROM DRIVE
- 32 MB RAM
- 400 MB HARD DRIVE
- 333 MHz PROCESSOR SPEED
- SERIAL PORT RS-232-C

Software Requirements

Windows 98 and *Windows* 2000 SOFTWARE are the recommended computer operating systems when running version 1.43 Service Software.

NOTE: Limitations with version 1.43 Service Software may be experienced if the recommended hardware and software requirements of the laptop computer are not followed.

SERVICE SOFTWARE version 1.43, **Part No. 1F8573**, is available on the CD for the "OPERATING & SERVICE SOFTWARE for *Kodak X-Omat* MULTILOADERS" from Service Parts Management.

New Type 1 Selective MODIFICATION Kit 1F8757 available

Modification No. 8 for the *Kodak X-Omat* MULTILOADER 7000

Modification No. 8 is an upgrade to version 1.24 Operating software. Included in Operating Software version 1.24, are the following improvements:

- A change was made to avoid possible "AB" error codes in the Cassette section, after installation of the new "Cassette Opener Sprocket Kit". The CASSETTE OPENER MOTOR running beyond the upper limit sensor, B-15, generate these error codes.

- Another change was made in version 1.24 Operating Software that will allow the "pocket delay" time to be increased to 1 second. The "pocket delay" is the time that the MAGAZINE SUCKERBAR waits inside the CASSETTE after the MAGAZINE SUCKERBAR loads the film into the CASSETTE. The increase in "pocket delay" time will help to avoid problems with film floating out of the Cassette during Cassette loading, which may also lead to "9A" errors in the Cassette section. To increase the "pocket delay" time to 1 second, DIP SWITCH S1-1 on the A4 PCB must be set to the "ON" position while the MULTILOADER is de-energized.

Modification 8 is a Type 1 Selective Modification, which must be done on the *Kodak X-Omat* MULTILOADER 7000, serial numbers 1475-1541. The new Cassette Opener Sprocket Kit was factory

installed on these MULTILOADERS, however the software upgrade to version 1.24 must be done in the field.

Modification 8 is also a Type 1 Selective Modification for serial numbers 1001-1541. Modification 8 should be installed on equipment with these serial numbers if the MULTILOADER is having failures loading film fully into the Cassette or has a history log indicating error code "CA 9A" in the Cassette section.

- Modification Kit 8, **Part No. 1F8757**, is available from Service Parts Management.
- Installation time is 1 hour

New Cassette Opener Sprocket Kit available

To increase reliability and simplify the adjustment of the CASSETTE OPENER ASSEMBLY, a change has been made to the CASSETTE OPENER MOTOR DRIVE SPROCKET. A new CASSETTE OPENER SPROCKET KIT has replaced the current DRIVE SPROCKET and PIN. Included in the KIT, **Part No. H9212416**, will be a new DRIVE SPROCKET and KEY, along with Installation Instructions. In the future, when replacing the DRIVE SPROCKET, Part No. 9212413, or the PIN, Part No. 9212831, the new CASSETTE OPENER SPROCKET KIT should be installed.

The CASSETTE OPENER SPROCKET KIT is available from Service Parts Management, and is compatible with the following equipment:

Kodak X-Omat MULTILOADER 300

Kodak X-Omat MULTILOADER 300 PLUS

Kodak X-Omat MULTILOADER 7000

Kodak Miniloader 2000

Kodak Miniloader 2000P

The CASSETTE OPENER SPROCKET KIT is factory-installed starting with the following equipment serial numbers:

Equipment	Serial Number
Kodak X-Omat MULTILOADER 7000	1475
Kodak Miniloader 2000	2141
Kodak Miniloader 2000P	6808

SENSOR B59 Adjustment for the *Kodak X-Omat* MULTILOADER 7000

The A5 PRINTED CIRCUIT BOARD on some *Kodak X-Omat* MULTILOADER 7000's is missing test point X1. The X1 test point is called out for use in the adjustment procedure for the B59, DOUBLE FILM SENSOR. For these situations, pin 4 on connector A5X6 should be used as the test point in place of the missing X1 test point. This connector should remain plugged into the A5 BOARD during adjustment. All other steps called out in the adjustment procedure remain the same.

Revised Illustrated Parts List available for the *Kodak X-Omat* MULTILOADER 7000

A publication revision of the Illustrated Parts List for the *Kodak X-Omat* MULTILOADER 7000 is now available from Service Parts Management. This publication is available as:

- Illustrated Parts List only, **Part No. 3H9267,** dated March 21, 2003
- Complete Health Imaging Analog Equipment CD, **Part No. 4E8964,** dated May 16, 2003

Revised Health Imaging Analog Equipment Publications CD available

A new revision of the Kodak Health Imaging Analog Equipment User and Service Publications CD is now available from Service Parts Management. The CD, **Part No. 4E8964,** dated May 16, 2003, includes User and Service publications for current *Kodak X-Omat* PROCESSORS, MULTILOADERS, MINILOADERS and Accessories.

New style Humidifier Cartridge available

HUMIDIFIER CARTRIDGE, Part No. 9198266, is no longer available. The replacement HUMIDIFIER CARTRIDGE, **Part No. H9198266**, is compatible with the following equipment:

Kodak X-Omat MULTILOADER 300

Kodak X-Omat MULTILOADER 300 PLUS

Kodak Miniloader 2000

Kodak Miniloader 2000P

Kodak MULTILODAER 700

Kodak MULTILOADER 700 PLUS

NOTE:

- When installing the new style HUMIDIFIER CARTRIDGE into a *Kodak X-Omat* MULTILOADER 300/300 PLUS or a *Kodak* MINILOADER 2000/2000P, the top and bottom frame must be removed prior to installation.
- The new HUMIDIFIER CARTRIDGE is available from Service Parts Management in the quantity of two per order.

Ralph Lippa, Service Engineer – Rochester, NY

For more information please contact:

Eastman Kodak Company
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1-800-328-2910 (U.S. Only)
651-393-1728 (Outside the U.S.A.)

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